

U.S. Application No. 10/506,848
Reply to Non-Final Office Action mailed on August 14, 2007

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450104-04424

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

Listing of Claims

1. (Currently Amended) A picture-taking An image pick-up apparatus comprising:
 - a camera lens[.];
 - image pickup means for converting image light passing through said camera lens into an electric image signal[.];
 - camera-signal processing means for processing said image signal[.];
 - chromatic signal converting means for converting an output signal from said camera-signal processing means into at least three primary color signals ~~or vice versa~~;
 - resolution changing means for enlarging or reducing a picture of each color of said primary color signals[.];
 - detection means for detecting a driving state of said camera lens and an amount of camera shake correction; ~~and~~
 - control means for controlling a changing coefficient of enlargement or reduction and an optical axis centered coordinate used in said resolution changing means depending on a detected output from said detection means;
 - signal conversion means for converting an output signal from said resolution changing means into an image signal for recording; and
 - recording and reproducing means for recording and reproducing said image signal

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to be recorded in a recording medium together with information on the driving state of said camera lens and an amount of camera shake correction that are detected by said detection means when taking a picture.

wherein the control means defines a changing coefficient of enlargement or reduction based on a driving state of the camera lens and a position of an optical axis based on an optical axis centered shift vector of the camera lens obtained from camera shake correcting vector and the control means controls said changing coefficient of enlargement or reduction and the optical axis centered coordinate around the position of the optical axis according to the changing coefficient, and

wherein the image pick-up apparatus has a first mode of correcting chromatic aberration when taking a picture and a second mode of correcting chromatic aberration based on reproduced information on the driving state of the camera lens and reproduced amount of camera shake correction.

2.-5. (Cancelled)

6. (Currently Amended) A chromatic aberration correcting method in a picture taking apparatus comprising:

~~a camera lens;~~

~~image pickup means for converting image light passing through said a camera lens into an electric image signal; and~~

~~camera signal processing means for processing said image signal; wherein an output signal from said camera signal processing means is~~

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~~converted~~-converting an output signal of the image signal into at least three
primary color signals[.];

enlarging or reducing a picture of each color of said primary color signals is
~~enlarged or reduced, and~~

detecting a driving state of said camera lens and an amount of camera shake
~~correction are detected~~-to control a conversion coefficient of said enlargement or reduction and
an optical axis centered coordinate depending on the detected output;

converting the output signal into an image signal for recording;

recording and reproducing said image signal to be recorded in a recording medium
together with information on the driving state of said camera lens and an amount of camera shake
correction that are detected when taking a picture;

defining a changing coefficient of enlargement or reduction based on a driving
state of the camera lens and a position of an optical axis based on an optical axis centered shift
vector of the camera lens obtained from camera shake correcting vector and controlling said
changing coefficient of enlargement or reduction and the optical axis centered coordinate around
the position of the optical axis according to the changing coefficient; and

wherein the picture taking apparatus has a first mode of correcting chromatic
aberration when taking a picture and a second mode of correcting chromatic aberration based on
reproduced information on the driving state of the camera lens and reproduced amount of camera
shake correction.

7.-10. (Cancelled)

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11. (New) The image pick-up apparatus as claimed in claim 1,
wherein the recording and reproducing means records identifying
information for discriminating the image pick-up apparatus and the image signal.
12. (New) The image pick-up apparatus as claimed in claim 1, further
comprising:
selecting means for selecting between a picture before the chromic
aberration correction and a picture after the chromatic aberration correction.
13. (New) The image pick-up apparatus as claimed in claim 1,
wherein the second mode of chromatic aberration correction is performed
when the reproduced identifying information discriminates that the recording and reproduction
are performed by the same image pick-up apparatus.
14. (New) The method as claimed in claim 6,
wherein the recording and reproducing step records identifying
information for discriminating the image pick-up apparatus and the image signal.
15. (New) The method as claimed in claim 6, further comprising:
selecting between a picture before the chromic aberration correction and a
picture after the chromatic aberration correction.
16. (New) The method as claimed in claim 6,

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wherein the second mode of chromatic aberration correction is performed
when the reproduced identifying information discriminates that the recording and reproduction
are performed by the same image pick-up apparatus.